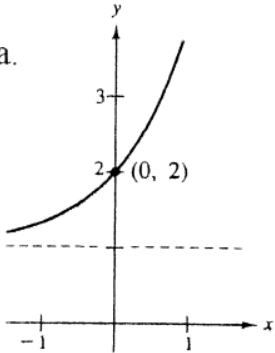
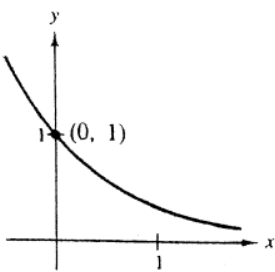
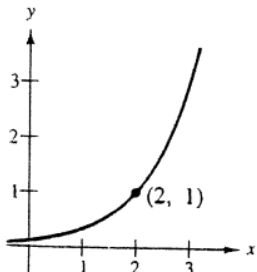
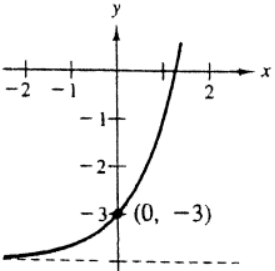
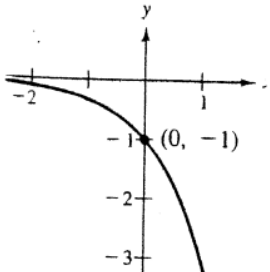
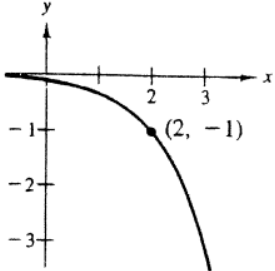
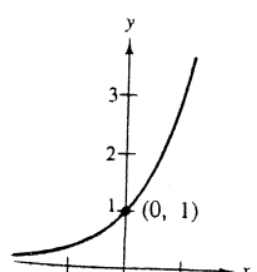
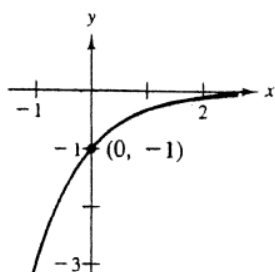


Matching Exponential Graphs and Equations:

Name: _____

Directions: Match each equation first with a description of the transformations of the equation (number match) and then with its graph (letter match).

<p>$y = 3^x$ Number Match: _____ Letter Match: _____</p> <p>$y = 3^{-x}$ Number Match: _____ Letter Match: _____</p> <p>$y = 3^x - 4$ Number Match: _____ Letter Match: _____</p> <p>$y = -3^{x-2}$ Number Match: _____ Letter Match: _____</p> <p>$y = -3^{-x}$ Number Match: _____ Letter Match: _____</p> <p>$y = 3^x + 1$ Number Match: _____ Letter Match: _____</p> <p>$y = -3^x$ Number Match: _____ Letter Match: _____</p> <p>$y = 3^{x-2}$ Number Match: _____ Letter Match: _____</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%; text-align: center;"> <p>a. </p> </div> <div style="width: 50%; text-align: center;"> <p>e. </p> </div> <div style="width: 50%; text-align: center;"> <p>b. </p> </div> <div style="width: 50%; text-align: center;"> <p>f. </p> </div> <div style="width: 50%; text-align: center;"> <p>c. </p> </div> <div style="width: 50%; text-align: center;"> <p>g. </p> </div> <div style="width: 50%; text-align: center;"> <p>d. </p> </div> <div style="width: 50%; text-align: center;"> <p>h. </p> </div> </div>
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1. $y = 3^x$ reflected over the x axis and shifted right two
2. $y = 3^x$ with no transformations
3. $y = 3^x$ reflected over the y-axis
4. $y = 3^x$ shifted up 1
5. $y = 3^x$ shifted right 2
6. $y = 3^x$ reflected over the x and y axis
7. $y = 3^x$ shifted down 4
8. $y = 3^x$ reflected over the x axis

Answer Key:

2D

3E

7F

1G

6H

4A

8C

5B